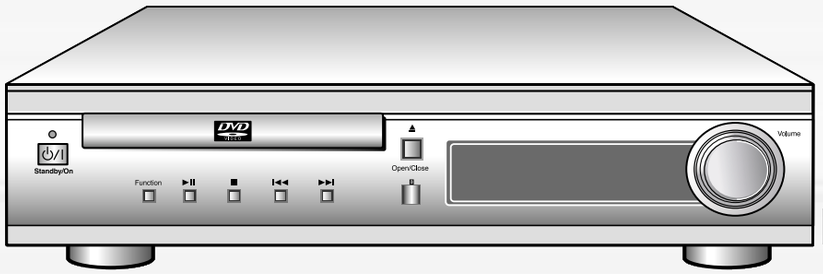
SAMSUNG

DIGITAL HOME THEATER SYSTEM

HT-DL70D
HT-DL80D

Instruction Manual



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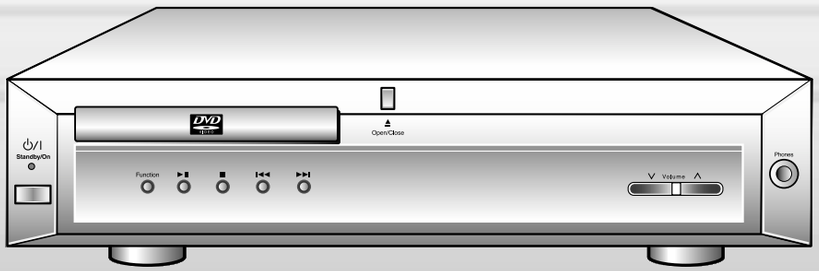

HT-DL80D

SAMSUNG ELECTRONICS

DOLBY DIGITAL | DIGITAL dts SURROUND | DVD VIDEO | COMPACT disc DIGITAL AUDIO | COMPACT disc DIGITAL VIDEO | MP3 DIGITAL DISC PLAYBACK

AH68-01133B

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Safety Warnings

GB

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Wiring the Main Power Supply Plug(UK Only)

IMPORTANT NOTICE

The main lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a main socket as there is a risk of shock hazard from the bared flexible cord.

Never attempt to insert bare wires directly into a main socket. A plug and fuse must be used at all times.

IMPORTANT

The wires in the main lead are coloured in accordance with the following code:–

BLUE = NEUTRAL BROWN = LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:–

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

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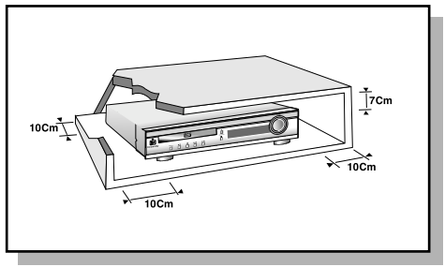
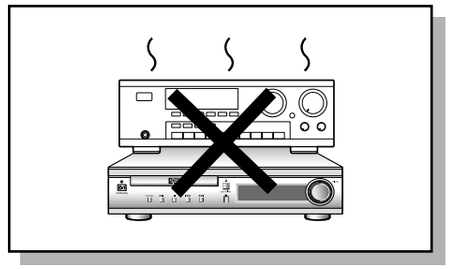
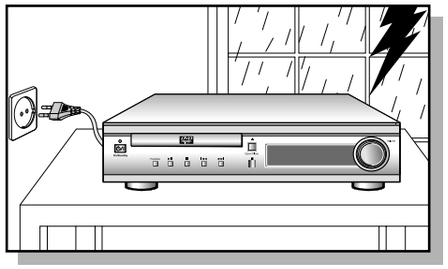
Precautions

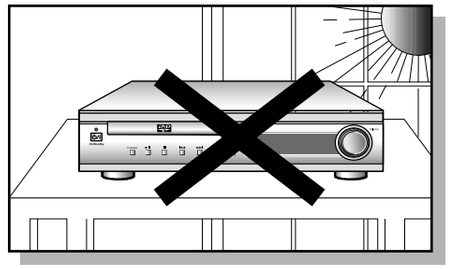




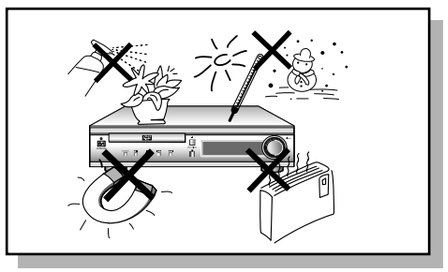
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player ensure the disc tray empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



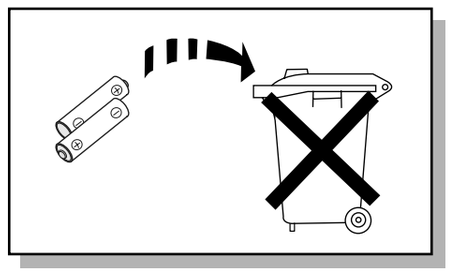
During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sun radiation or other heat sources.
This could lead to overheating and malfunction of the unit.



Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...).
Disconnect the power cable from the AC supply if the player malfunctions.
Your player is not intended for industrial use.
Use of this product is for personal use only.
Condensation may occur if your player or disc has been stored in a cold atmosphere.
If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

GB

DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.

1 ~ 6

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Do not use the following types of disc!

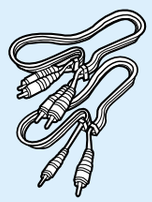
- LD, CDG, CD-I, CD-ROM and DVD-ROM cannot be played on this player.
  If such discs are played, a "WRONG DISC FORMAT" message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a "WRONG REGION CODE" message appears on the TV screen.

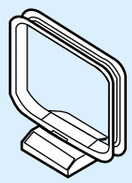
Copy Protection

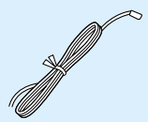
- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Accessories

Remote Control


Video/Audio Cable


AM Antenna


FM Antenna

User's Manual

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Description

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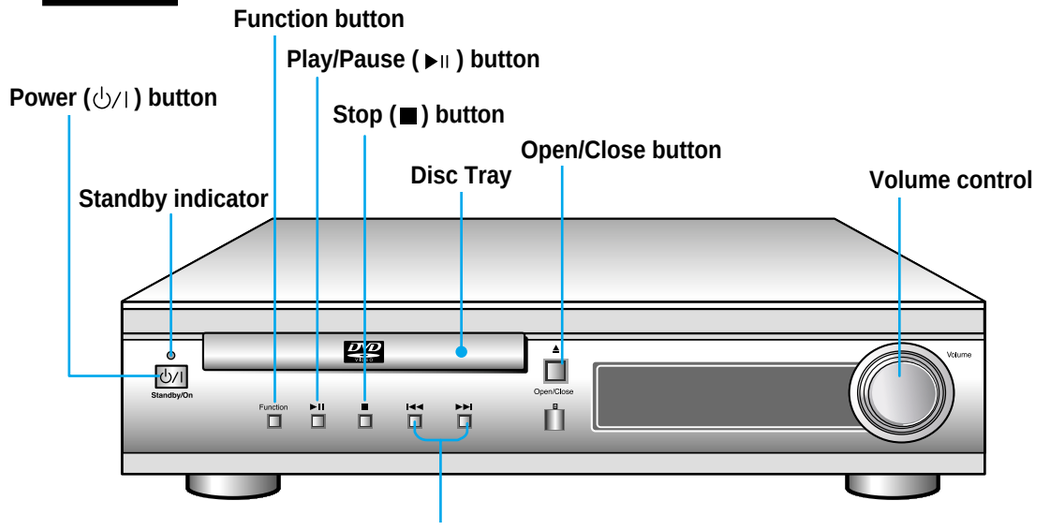
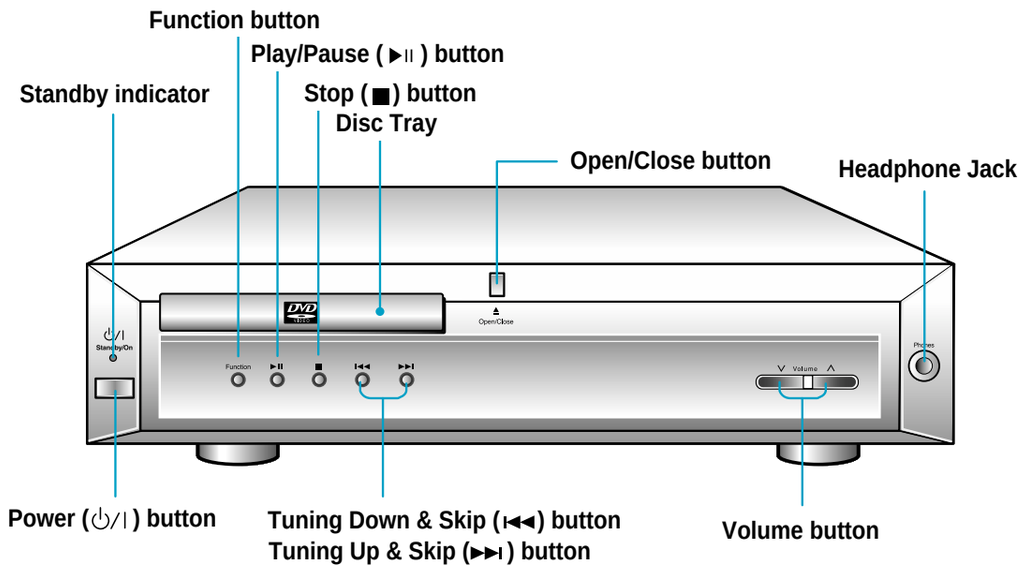
Front Panel

HT-DL70D


Function button
Play/Pause (▶II) button
Power (⏻/I) button
Stop (■) button
Standby indicator
Disc Tray
Open/Close button
Volume control
Tuning Down & Skip (I◀◀) button
Tuning Up & Skip (▶▶I) button

HT-DL80D



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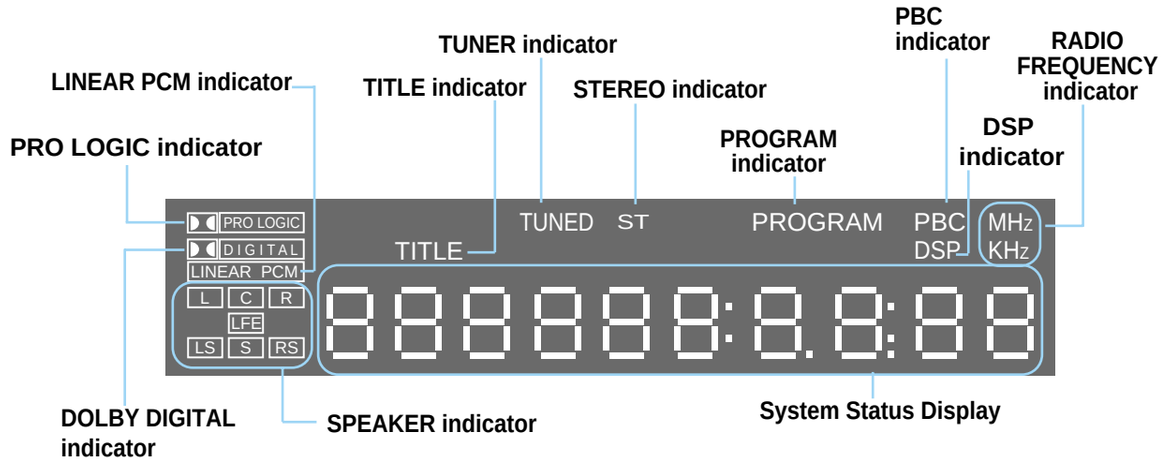
Display



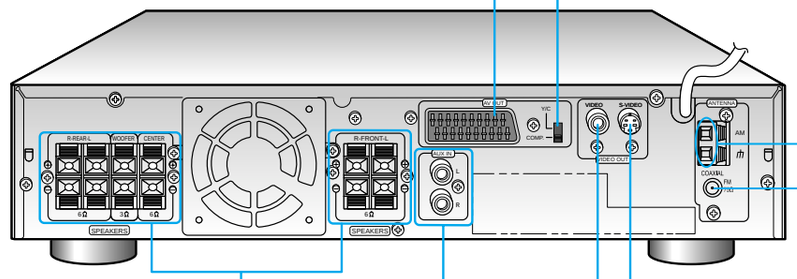
Rear Panel

For using the SCART cable

- If S-Video (Y/C-separation) is equipped for your TV, set Y/C-COMP. selector of the center unit to Y/C. You can get a better picture quality by using S-Video (Y/C-separation) setting.
- If S-Video (Y/C-separation) is not equipped for your TV, set Y/C-COMP. selector to COMP.

SCART JACK
Connect to a TV with scart input jack.

VIDEO OUT SELECT SWITCH
Use the switch to set video out



S-Video Output Connector
If the TV is equipped with an S-Video input connector (S-VIDEO IN), connect it to the player's S-Video output jack.

Video Output Connector
Connect the TV's video input jacks (VIDEO IN) to the VIDEO OUT connector.

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Remote Control Unit

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DVD POWER button

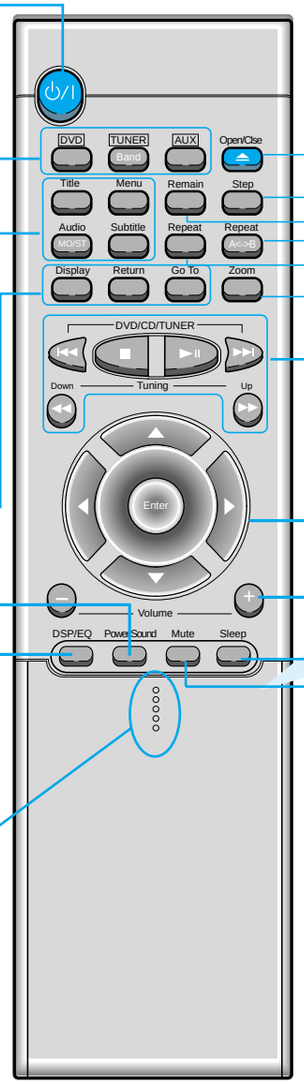
DVD button
TUNER button
AUX button

Title button
Menu button
Subtitle button
Audio
MO/ST(mono/stereo) button

Display button
Return button
Go To button

Power Sound button

DSP/EQ button



Open/Close button

Step button

Remain button

Repeat (A<->B) button

Repeat button

Zoom button

Play/Pause button

Stop button

Tuning Preset/CD Skip button

Tuning Up/Down/CD Search button

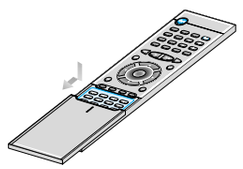
Direction/Enter button

Volume Control buttons
Speaker output volume control

Sleep button

Mute button

To open the remote control cover, push the top of the cover, then slide downward.



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Selection button

Slow button

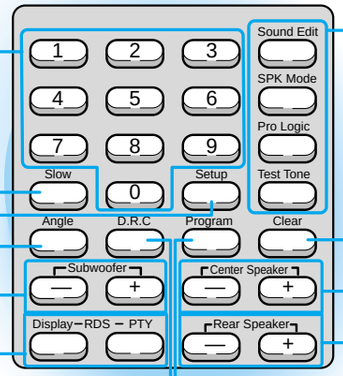
Setup button

Angle button

Subwoofer Speaker button

RDS Selection button

D.R.C button



Sound Edit button

SPK Mode button

Pro Logic button

Test Tone button

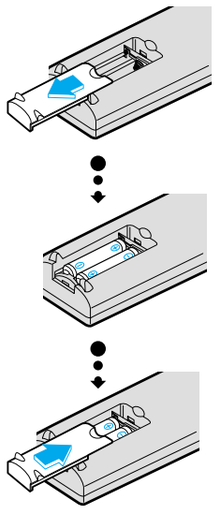
Clear button

Center Speaker button

Rear Speaker button

Program button

Insert Remote Batteries



1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.

2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).

3 Replace the battery cover.

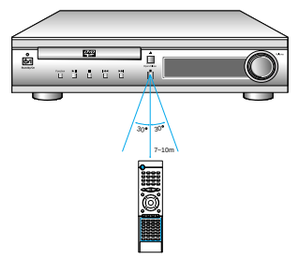
CAUTION

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity:(+) to (+)and (–)to (–).
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

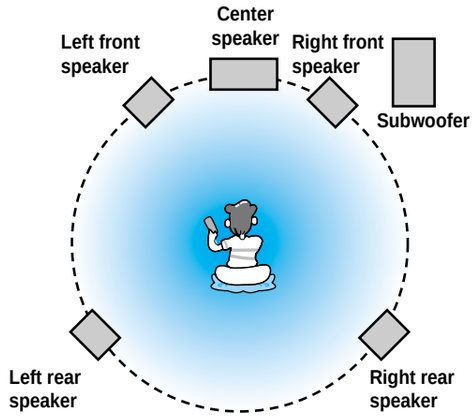
The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



Connecting the Speakers

GB

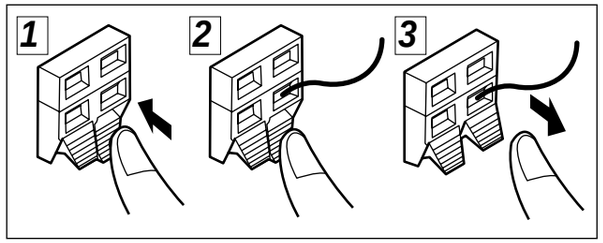
- Connect the satellite speakers, center speaker, and subwoofer to the terminals on the rear panel using speaker cords supplied.
- Insert the end of the speaker cord into the terminal. Match the polarity (colors): Red (+) to red (+) and black (–) to black (–).

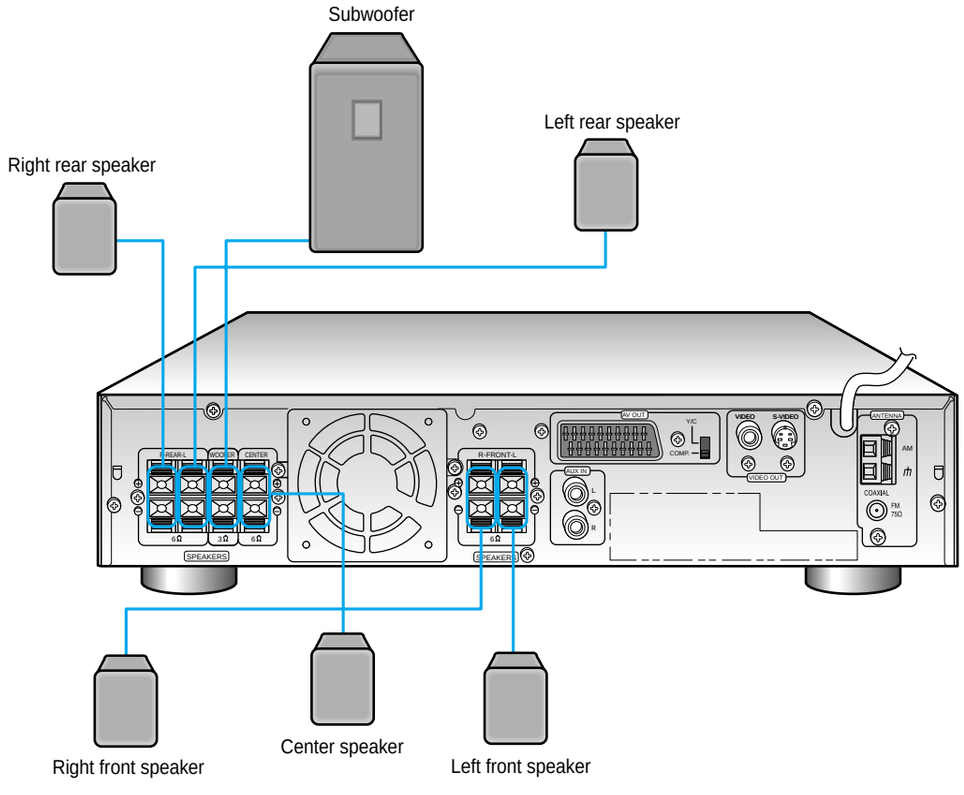


1 **Press and hold the terminal tab.**

2 **Insert the speaker cord.**

3 **Release your finger.**





Note

• for in-depth information about adjusting the delay time, see “Speaker Settings” on page 32.

Connecting Video to TV

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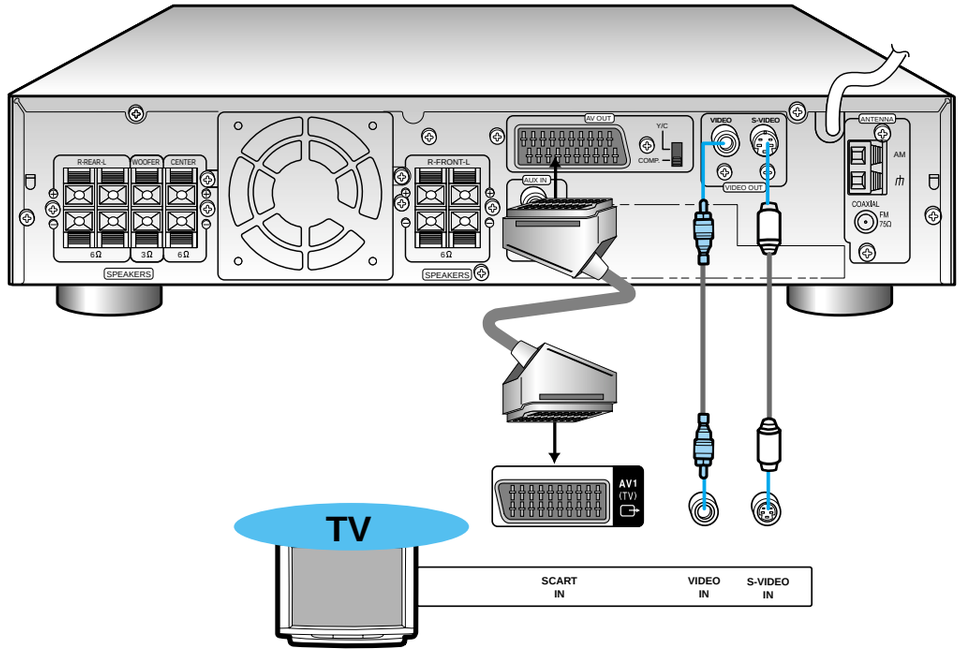

Composite Video (Good Quality)
Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

S-Video (Better Quality)
If you television is equipped with an S-Video input, connect an S-Video cable (not supplied) from the S-VIDEO OUT jack on the back panel of the system to the S-VIDEO IN jack on your television.

Scart (Best Quality)
If you television is equipped with an SCART input, connect an Scart Jack (not supplied) from the AV OUT jack on the back panel of the system to the SCART IN jack on your television.

If your TV SCART terminal with Y/C-COMP. selector, you can get a better picture quality by setting Y/C-COMP.selector to Y/C . in this case , you need to set Y/C-COMP. selector of the center unit to Y/C.

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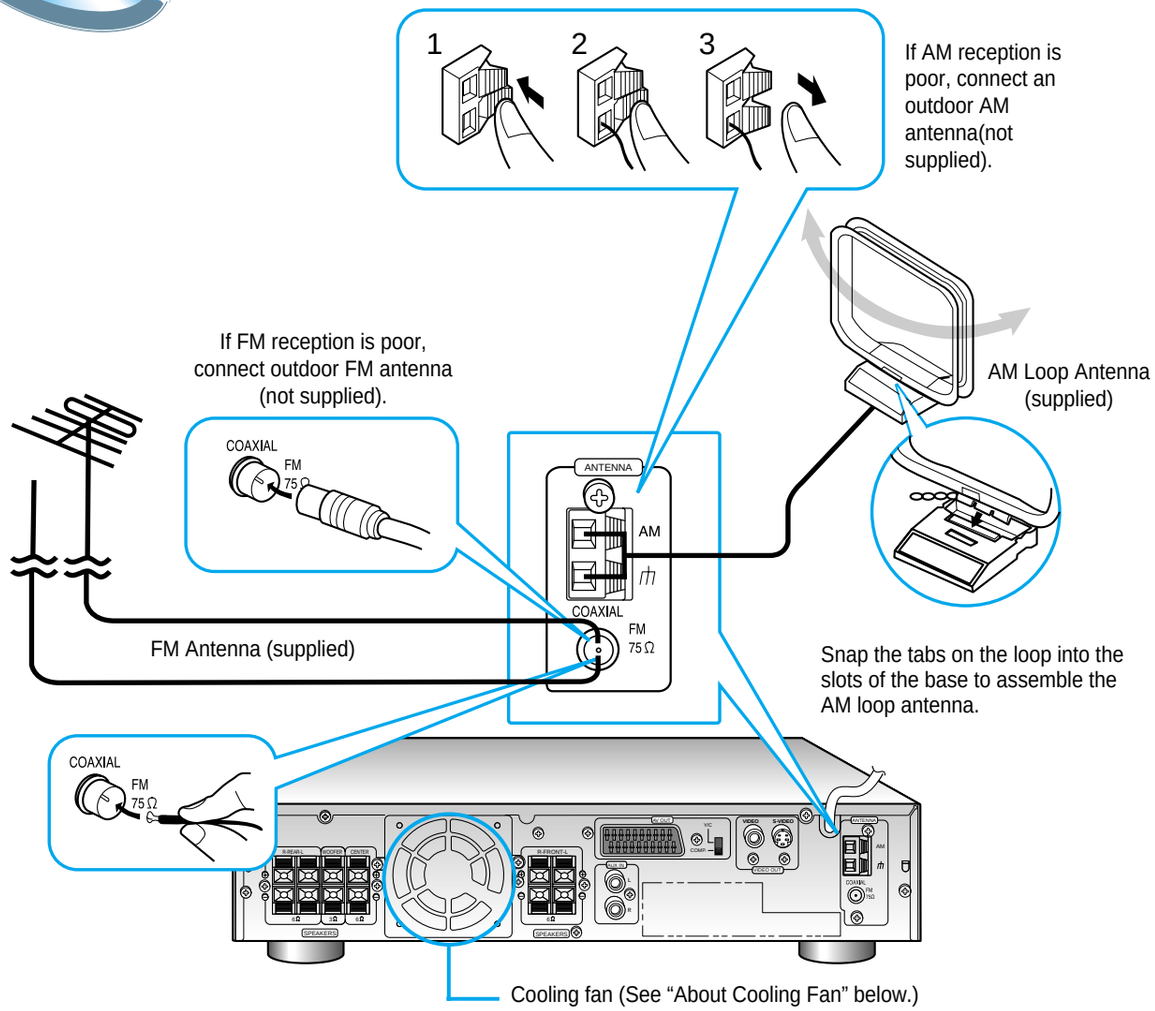
Connecting the FM and AM(MW/LW) Antennas


1
2
3
If AM reception is poor, connect an outdoor AM antenna(not supplied).
If FM reception is poor, connect outdoor FM antenna (not supplied).
COAXIAL
FM 75 Ω
ANTENNA
AM
COAXIAL
FM 75 Ω
AM Loop Antenna (supplied)
FM Antenna (supplied)
Snap the tabs on the loop into the slots of the base to assemble the AM loop antenna.
Cooling fan (See “About Cooling Fan” below.)

FM antenna connection

1. **Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal.**
2. **Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.**

• If reception is poor, connect an outdoor antenna. Before attaching a 75Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.

AM(MW/LW) antenna connection

1. **Connect the AM loop antenna supplied to the AM and ⏚ terminals.**
2. **If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).**

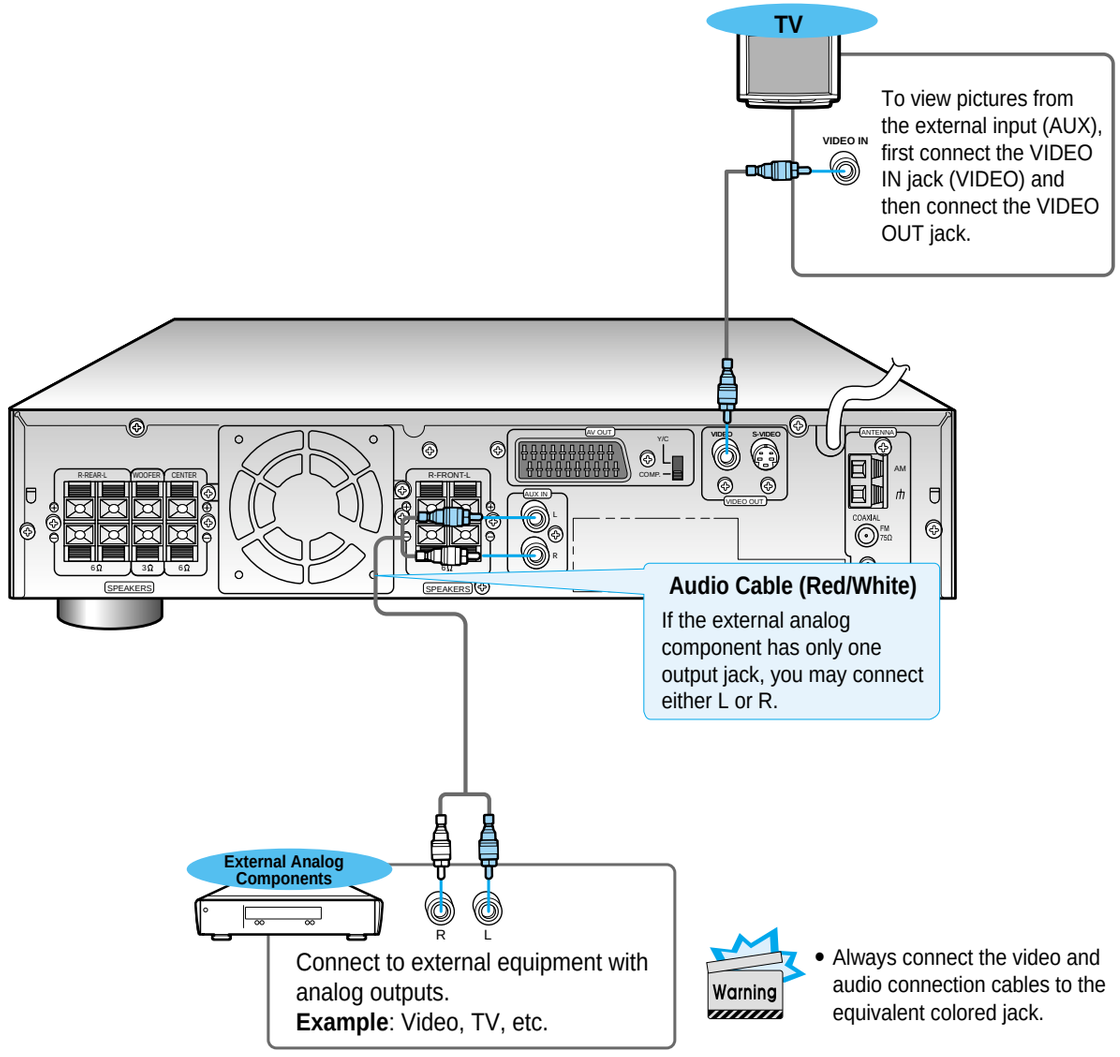
(About the cooling fan)

A cooling fan is mounted on the rear panel of the center unit to prevent abnormal temperature inside the center unit, thus assuring normal operation. The cooling fan automatically starts rotating to supply external cool air to the inside of the center unit when the internal temperature exceeds the specified limit.

For safety, observe the following carefully.

- Make sure there is good ventilation around the center unit. Poor ventilation could overheat and damage the canter unit.
- DO NOT block the cooling fan and the ventilation openings or holes. (If they are blocked by a newspaper or cloth, etc., the heat may not be able to escape.)

AUX Connections


TV
VIDEO IN
To view pictures from the external input (AUX), first connect the VIDEO IN jack (VIDEO) and then connect the VIDEO OUT jack.
Audio Cable (Red/White)
If the external analog component has only one output jack, you may connect either L or R.
External Analog Components
R
L
Connect to external equipment with analog outputs.
Example: Video, TV, etc.
Warning
• Always connect the video and audio connection cables to the equivalent colored jack.

Making Analog Input Selection

Remote Control	Press the **AUX** button and select AUX IN.
Main Unit	Press the **Function** button and select AUX IN.

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Connecting your System to the Power Supply

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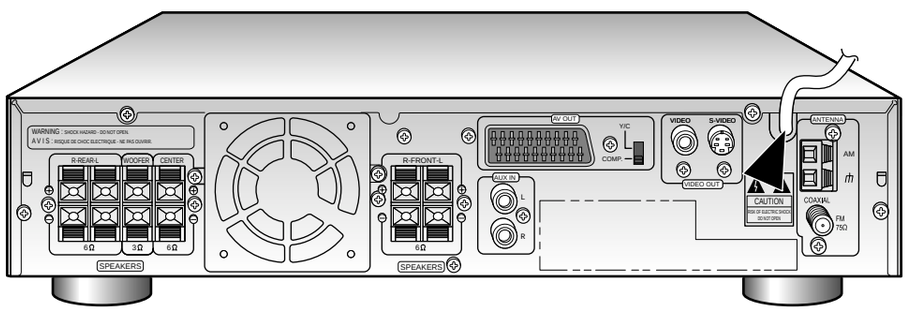
The main lead must be plugged into an appropriate socket.

Before plugging your system into an AC outlet, you must check the voltage.

1. Plug the AC Cord on the rear of the system into an appropriate outlet.
2. Press the On/Standby button to switch your DVD Player system on.

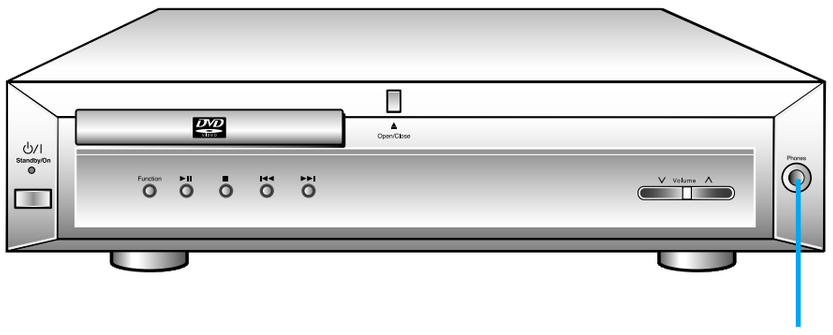


Listening on headphones ●●●●●● HT-DL80D only

Use headphones for private listening pleasure (not supplied).

Connect the headphones to the HEADPHONES jack of the front panel.

- No sound is produced from the speakers.
- To prevent hearing damage, do not raise the volume level excessively when using headphones.



HEADPHONE jack

Before Using the DVD Player

Your DVD player is capable of playing DVD, VCD, and CD discs.
User instructions may vary depending on the type of disc. Read the instructions carefully before use.

GB

Prepa-rations before use

1 **Turn on the power to your DVD player and TV.**

2 **Select a video mode by pressing the TV/VIDEO button on the TV.**

3 **Press the DVD button to select the DVD input function.**

Note

- The "**WAIT**" message that appears on the display for about seven to eight seconds when turning on the power or selecting a DVD function indicates a stabilization period for optimizing the condition of your DVD player. While the message is being displayed, other buttons remain inactive.
- When the power is not turned on, press down the Stop (■) button on the main unit for over 5 seconds.
  The product will be initialized to its optimum state.
- Certain operational features such as the Speaker mode, Test tone, Volume, etc. will not be displayed on the TV screen.

TV System Selection

With the power turned off, press and hold (for more than 2 seconds) the ▶▶I button on the main unit.

- The display on the main unit switches as follows: **NTSC** → **PAL** → **SECAM** (OPTION). Then release the button to select the system of your TV.
- Different countries use different types of TV broadcast systems, video, audio and channel systems.
  Example : The player cannot playback NTSC-encoded DVD with PAL-TV.

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DVD Playback

GB

1

Press the **Open/Close**(▲) button to open the disc tray.

- The button is located on the Front Panel of the player (not on the remote).

2

Insert a disc.

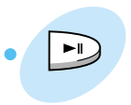
- Place a disc gently into the tray with the disc's label facing up.

3

Press the **Open/Close**(▲) button again to close the disc tray.

- Playback starts automatically.

Pausing Playback



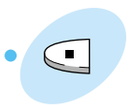
Press the Play/Pause (▶II) button during playback.

- To resume, press the Play/Pause (▶II) button again.

Note

- Depending on the disc, the initial disc information screen may look different from disc to disc.
- When playing a DVD containing MPEG format, video may not be reproduced correctly and you may get picture distortion.

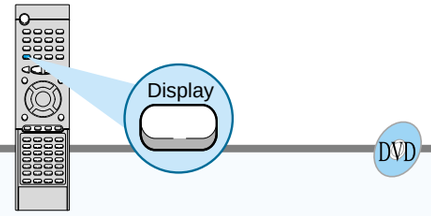
Stopping Playback



Press the Stop (■) button during playback.

- During playback, when the Stop (■)button is pressed, the position is stored in the memory, and ▶■ STOP is shown on the display.
  When the Play/Pause (▶II) button or Return button is pressed subsequently, playback resumes from the position at which it was stopped.
- If the Stop (■) button is pressed a second time, the 'resume play' memory function is canceled, and ■ STOP is shown on the display. When the Play/Pause (▶II)button is pressed, playback starts from the beginning.

Using the On-Screen Display



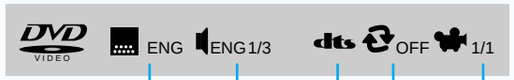
Press the Display button on the remote.

Display

Display

Display

DVD indicator — TITLE indicator — CHAPTER indicator — TITLE ELAPSED indicator



SUBTITLE LANGUAGE indicator — AUDIO LANGUAGE indicator — DISC TYPE indicator — REPEAT indicator — ANGLE indicator

The On-Screen Display disappears.

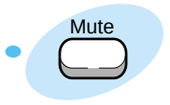
What is a Title?

A movie contained in a DVD disc.

What is a Chapter?

Each Title on a DVD disc is divided into several smaller sections called "chapters".

Turning the sound off temporarily?



Press the Mute button during playback.

- This operation may be useful when you need to greet guests or answer the telephone.

Note

If the player is left for more than 3 minutes in pause mode, it will stop.

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Forward/Reverse Searching

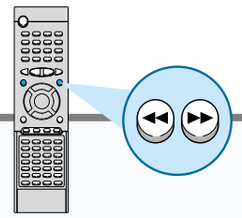
During playback, you can search quickly through a chapter or track for a specific scene or tune.

GB

Multi-Speed Playback

DVD VCD CD

Press the ◀◀ and ▶▶ button.



Each time the ◀◀ button is pressed

◀◀ X 2 → ◀◀ X 4 → ◀◀ X 8 → ◀ PLAY → (repeat)

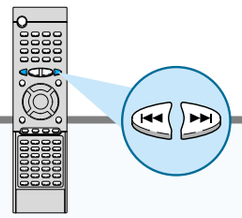
Each time the ▶▶ button is pressed

▶▶ X 2 → ▶▶ X 4 → ▶▶ X 8 → ▶ PLAY → (repeat)

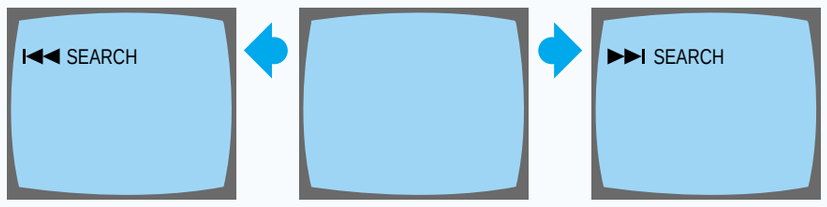
Skipping through a Chapter

DVD VCD CD

Press the ⏮◀◀ and ▶▶⏭ button.



- Each time the button is pressed during playback, it moves to the next or previous chapter and plays it.



Playing Frame by Frame

DVD VCD

Step

Press the Step button.

- The picture moves forward one frame each time the button is pressed.

Note

No sound is heard during high-speed playback, slow playback, and step motion.

Slow Playback/Checking the Remaining Time

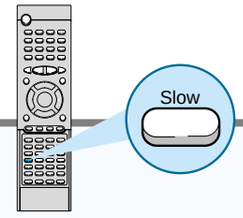
GB

Playing Slowly

DVD VCD

Slow

Press the Slow button.



Each time the Slow button is pressed

DVD: I▶SLOW 1/2 → I▶SLOW 1/4 → ▶ PLAY → (repeat)

VCD: The slow playback speed changes and the selections (1/2X, 1/4X, 1/8X, 1/16X and normal play) are repeated.

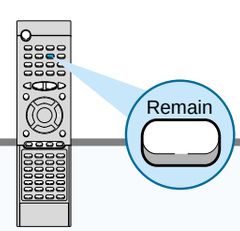
Checking the Remaining Time

DVD VCD CD

Remain

Press the Remain button.

- For checking the total and remaining time of a title or chapter being played.



Each time the Remain button is pressed

DVD: TITLE TIME → REMAIN TIME : TITLE → CHAPTER TIME → REMAIN TIME : CHAPTER → (repeat)

VCD CD: TRACK TIME → REMAIN TIME : TRACK → DISC TIME → REMAIN TIME : DISC → (repeat)

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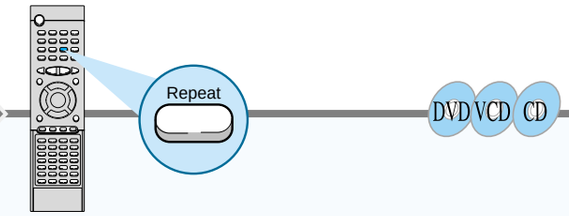
Repeat Playback

Repeat playback allows you to repeat a chapter, title, or track.

Playing Repeatedly



DVD VCD CD

Press the Repeat button.

Each time the Repeat button is pressed

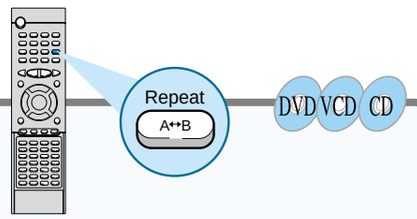
DVD
- REPEAT : CHAPTER
- REPEAT : TITLE
- REPEAT OFF

VCD CD
- REPEAT : ONE
- REPEAT : DISC
- REPEAT OFF

Note

- Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To operate this feature, press the MENU button, and then select "PBC OFF".

A↔B Repeat Playback



DVD VCD CD

1 Press the **Repeat A↔B** button at the beginning (A) of the segment you want to review.

2 Press the **Repeat A↔B** button again at the end (B) of the segment you want to review.
- The segment will begin repeating.

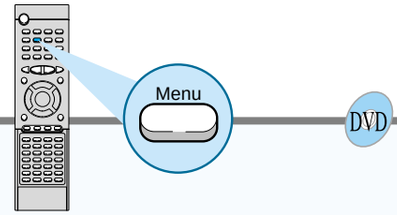
To return to normal playback

Press the Repeat A<–>B button again.

- REPEAT : A-
- REPEAT : A - B
- REPEAT OFF

Using Disc Menu/Title

To Select the Disc Menu

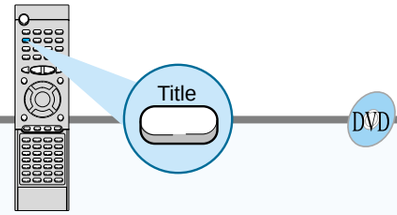


DVD

You can use the menus for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.

1	**2**	**3**
Press the **Menu** button during playback.	Use the **Up/Down** (▲ / ▼) or **Left/Right**(◄ / ►) button to access the different features.	Press the **Enter** button.
• The Menu Screen appears. • When playing VCD version 2.0, you can operate it using PBC On/Off function.		• The selected item will play.

Using the Title Menu



DVD

For DVDs containing multiple titles, you can view the title of each movie.
Depending on the disc, this function may either not work at all, or may work differently.

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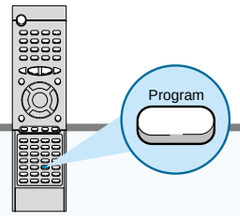
Program Playback

Use this function to program chapters or tracks in a particular order.

GB

To Program Tracks in a particular order



DVD

1

Press the **Program** button.

2

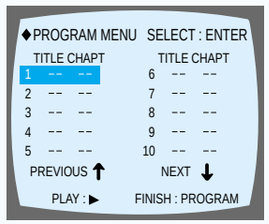
Press the **Enter** button, then use the Number buttons to select the desired title.

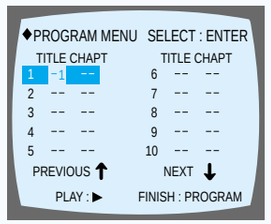
- You can also use the **Left/Right** (◄/►/▲/▼) button.

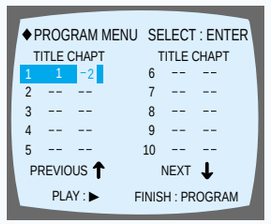
3

Press the **Enter** button, then use the Number buttons to select the desired chapter.

- You can also use the **Left/Right** (◄/►/▲/▼) button.



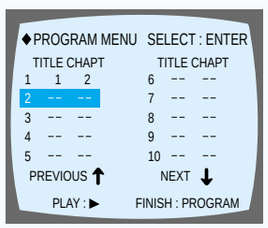




4

Press the **Enter** button.

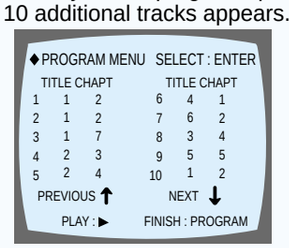
- The selected track number is programmed and the cursor moves to the next number.



5

At this time, you can continue programming if you want to.

- When programming more than 10 tracks, select NEXT↓ and then press the **Enter** button. The program selection screen where you can program up to 10 additional tracks appears.


♦PROGRAM MENU SELECT : ENTER
TITLE CHAPT TITLE CHAPT
1 1 2 6 4 1
2 1 2 7 6 2
3 1 7 8 3 4
4 2 3 9 5 5
5 2 4 10 1 2
PREVIOUS NEXT
PLAY : ► FINISH : PROGRAM

To Playback the Tracks in Programmed Order

Press the **Play/Pause** (▶II) button.

To Leave the Programming Mode

Press either the **Program** or **Stop** (■) button.

To Change the Program

DVD

1

Press the **Up/Down** (▲/▼) button to select the track number to be changed.

2

Press the **Enter** button to select the title or chapter to be changed.

- The cursor moves to the next number when the **Enter** button is pressed again.

3

Press the **Clear** button and then press the Number buttons.

- You can also use the **Left/Right** (◄/►) button.

4

Press the **Enter** button.

- The cursor moves to the number below.

5

Repeat steps 1-4 above to change the program.

To delete the entire Program

- Press the **Stop** (■) button twice during playback.
- Press the **Stop** (■) button once when in the Stop mode.
- Press the **Open/Close** (⏏) button on the main unit. The disc tray will open and then close. The program will then be deleted.

When you have entered a wrong number

Clear

Press the Clear button.

- When you want to delete a selection during programming, select the track (or chapter, or title) to be deleted and then press the **Clear** button.

Note

- You can program or change particular tracks for VCD or CD discs in the same manner.
- Depending on the disc, the PROGRAM function may not work.

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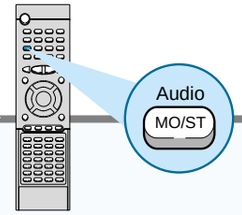
Selecting the Audio Language/Subtitle Language

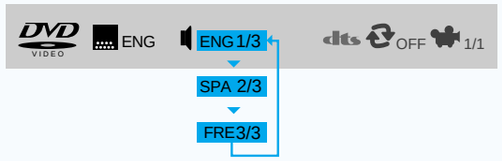
GB

Selecting the Audio Language



Press the Audio button.

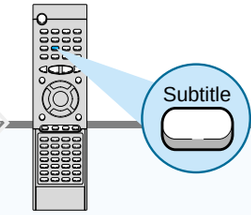
- Depending on the number of languages recorded on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.



Note

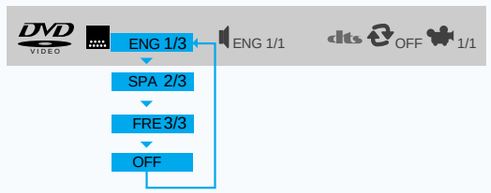
- Depending on the disc, DTS or DIGITAL PRO LOGIC can be selected.

Selecting the Subtitle Language



Press the Subtitle button.

- Depending on the number of languages recorded on a DVD disc, a different subtitle language (ENGLISH, SPANISH, FRENCH etc.) is selected each time the button is pressed.
- To make the subtitles disappear, select "OFF".



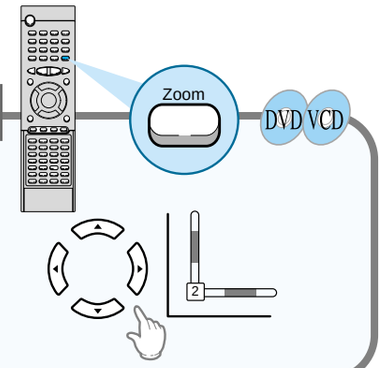
Note

- If the word ⃠ INVALID appears on the TV screen while buttons are being operated, that operation is not possible with that particular disc.
- Depending on the disc, the audio or subtitle language function may not work.

Various DVD Functions

GB

To enlarge an image



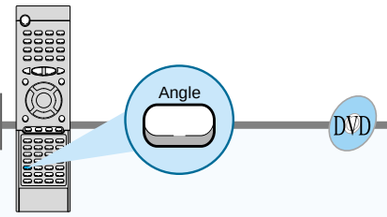
Press the Zoom button.

- Images can be enlarged 2x and 4x.
- During DVD playback, press the Zoom button to zoom in 2X/4X/normal, in that order.
- Press ◀ / ▶ / ▲ / ▼ to move the enlarged portion you want to watch.

Note

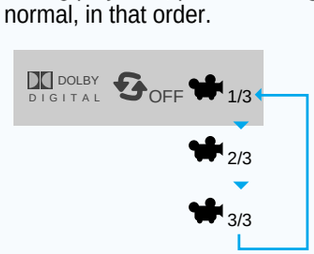
- Only 2X zoom operation is possible during VCD playback.

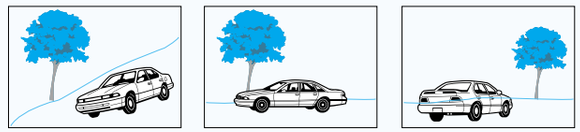
Selecting the desired Screen Angle



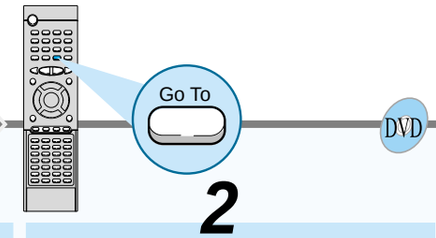
Press the Angle button.

- This function only works with discs on which multiple angles have been recorded.
- During playback, press the **Angle** button to select the desired angle in 1/3, 2/3, 3/3, normal, in that order.





To move directly to a title, chapter, or time



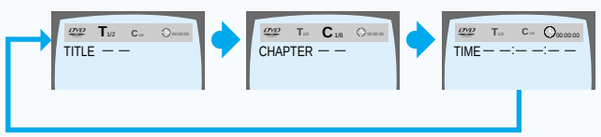
1

Press the **Go To** button.

2

Press Number(0~9) buttons or the **Left/Right** (◀ / ▶) button.

- Each time the button is pressed, it repeats as shown below.



- Each time the buttons are pressed the desired scene is located and then played.
- Depending on the disc, the Title function may not work.

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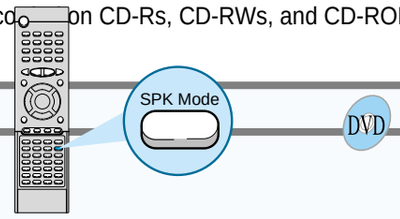
MP3 Playback

This system has a built-in MP3 decoder.
You can play back MP3 tracks (files)recorded on CD-Rs, CD-RWs, and CD-ROMs.

GB

Starting Playback

Setting up Speaker Mode and Delay Time



Press the **SPK Mode** button.

- Each time the button is pressed, a different mode selection is displayed on the front panel display as shown below.

Speaker Mode

- F-SP SMALL — Front speaker: Small
- C-SP SMALL — Center speaker: Small
- R-SP SMALL — Rear speaker: Small
- SW-SP USE — Subwoofer: Use
- C-DEL 00MS — Center Speaker Delay Time — Setting up Delay Time from 00~05ms
- R-DEL 00MS — Rear Speaker Delay Time — Setting up Delay Time from 00~15ms

• SMALL: When this setting is selected, low frequencies of below 200 Hz are assigned to the subwoofer only.
• USE: Select when using speakers.

MP3 is an abbreviation of Motion Picture Experts Group (or MPEG) Audio Layer 3. MP3 is simply a file format with a data compression ratio of 1:10 (128 Kbps*). That means,by using MP3 format, one CD-R or CD-RW can store 10 times as much data/sound as a regular CD can.
*Bit rate is the average number of bits that one second of audio data will consume. The measuring unit used is Kbps (1000 bits per second).
To obtain better audio quality, choose a higher bit rate. The most popular bit rate for encoding (recording)is 128 Kbps.

- This system can only read MP3 files that are recorded in the format that is compliant with ISO 9660 Level 1 or Level 2.
- The system can read or play MP3 files only with the extension code ".mp3 ".
- ID3 tag cannot be shown on the display.
- An MP3 file can contain file information called "ID3 Tag" where its album name, performer, rack title, etc. are recorded.

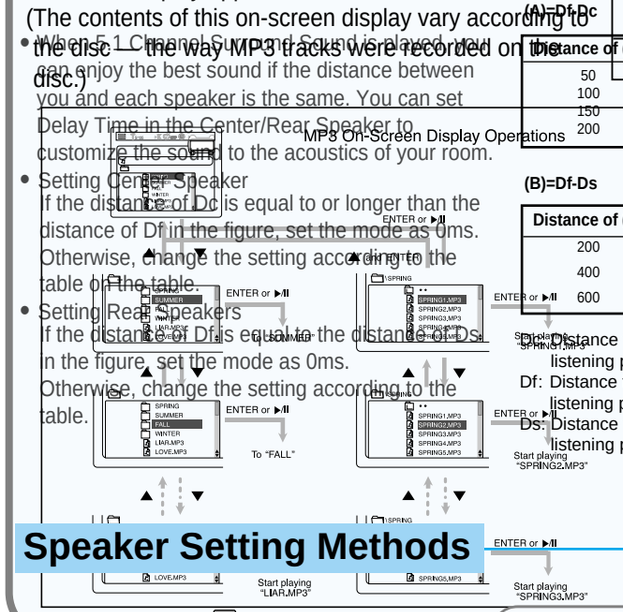
Note

- The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.)
- When in the speaker mode, the center and rear speakers and the subwoofer cannot be selected.

Operations Using the On-Screen Display

Turn on your TV when playing back an MP3 disc.

When the loaded MP3 disc is recognized, the following on-screen display appears on the TV screen.
(The contents of this on-screen display vary according to the disc — the way MP3 tracks were recorded on the disc.)



Button	To do
ENTER, ▶II	Start playback or go into a directory.

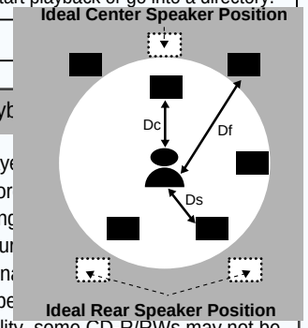
(A)=Df-Dc

Distance of (A)	Value
50	1.3ms
100	2.6ms
150	3.9ms
200	5.3ms

(B)=Df-Ds

Distance of (B)	Value
200	5.3ms
400	10.6ms
600	15.9ms

Df: Distance from center speaker to listening position
Df: Distance from front speakers to listening position
Ds: Distance from rear speakers to listening position



Arrange all speakers within a circle as shown in the figure.

To set the delay time

- When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to customize the sound to the acoustics of your room.
- Setting Center Speaker
  If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table on the table.
- Setting Rear Speakers
  If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Speaker Setting Methods

Front Speakers

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

Center Speaker

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

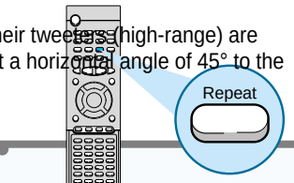
Rear Speakers

Set the rear speakers further back, parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.
If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

Subwoofer Speaker

Place the subwoofer at any convenient location within the vicinity of the listening position.

- Your DVD player can play back CD-R/RW discs recorded in CD-DA or video format. When recording CD-R/RW discs, make sure to properly terminate the disc so that it is playable. (Depending on the recording quality, some CD-R/RWs may not be playable.)
- CD-RW has a lower reflection rate than CD-R media and consequently it will take a longer to read CD-R discs.
- CD-RW discs recorded at high speed tend to be difficult for the DVD player to read. If the recording speed for the CD-RW disc is not predetermined, write it at low speed.



- Each time you press the button, repeat mode changes as follows:

REPEAT:RANDOM → REPEAT:ONE → REPEAT:DISC → REPEAT:DIR → REPEAT OFF

REPEAT:RANDOM
: All tracks recorded on the disc will be played once in random order.
REPEAT:ONE
: Current track will be repeated.
REPEAT:DIR
: Tracks in the current directory will be repeated.
REPEAT:DISC
: All tracks on the disc will be repeated.
REPEAT OFF
: Repeat play is canceled.(Normal play is resumed.)

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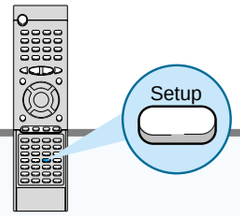
System Setup

You can use the DVD player's Setup function to select the TV screen ratio, rating limit, or digital output mode.

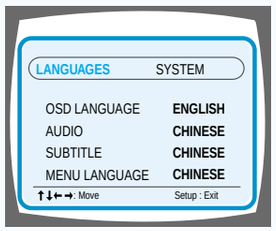
GB

To Set up the System



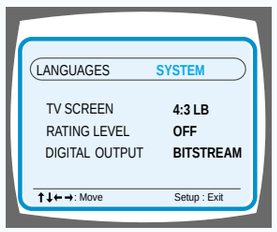
1

From the stop mode, press the **Setup** button.



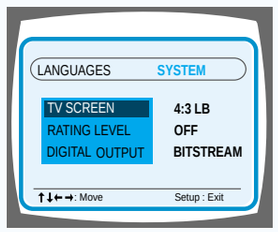
2

Press the **Left/Right** (◄/ ►) button to select the system.



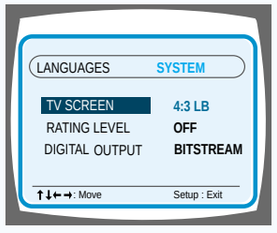
3

Press the **Up/Down** (▲/▼) button to select the desired item.



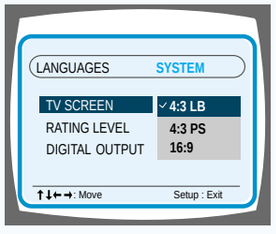
4

Press the **Enter** button or Right (►) button.



5

Press the **Up/Down** (▲/▼) button to select the desired sub-item and then press the **Enter** button.



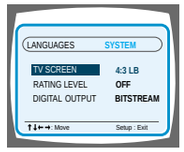
To End the System Setup

- Press the **Setup** button again.

GB

TV SCREEN(TV SCREEN RATIO)

Select when you want to watch a 16:9 screen ratio DVD movie on a TV with a 4:3 ratio screen.



4:3LB You can see the full 16:9 picture, but black bars will appear at the top and bottom of the screen.

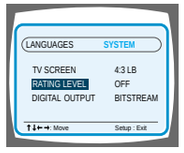
4:3PS You can only view the central portion of the 16:9 screen.

16:9 You can view in widescreen, but the top and bottom of the picture will be cut off.

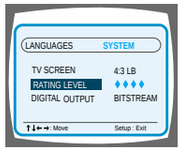
- If the movie is recorded in 4:3 ratio, you cannot view the full 16:9 picture with the above functions.

RATING LEVEL

The Rating Level function works in conjunction with DVDs which have been assigned a rating, to help control the type of DVD that your family watches.

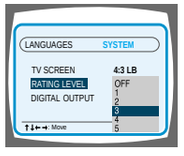


1. Select RATING LEVEL, then press the Enter button.



2. Use the number(0~9) buttons to input a 4-digit password.

- The player's password is set to "7890" by default.



3. Use the Up/Down (▲/▼) button to select either RATING LEVEL or NEW PASSWORD, and then press the Enter button.

- There are up to 8 rating levels on a disc.
- If LEVEL 6 is selected, a disc which contains rating LEVEL 7 and above cannot be played.
- If you select NEW PASSWORD, the screen changes and enables you to enter the new password.

When the rating level password has been forgotten

While the player is in the stop mode, hold the **Stop** (■) button down on the main unit for more than 5 seconds.

- "INITIAL" appears on the display and all default settings will return to Factory Preset.
- Press the **Power** button.

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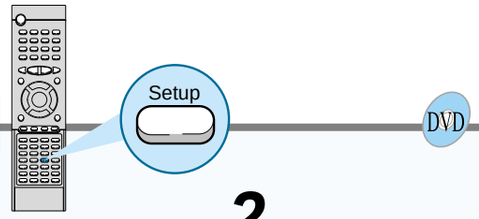
Setting up the Language Features

Using the DVD player's Setup function, you can customize the Menu Language, Subtitle Language, and Disc Menu Language.

GB

To set up the language feature

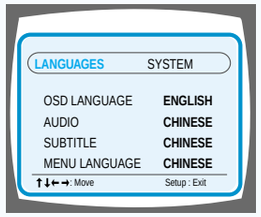


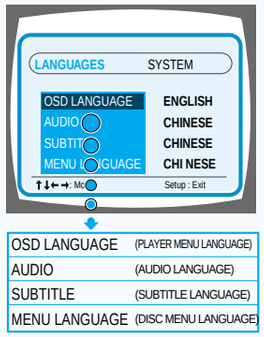
1

Press the **Setup** button from the stop mode.

2

Press the **Up/Down** (▲/▼) button to select the desired item.



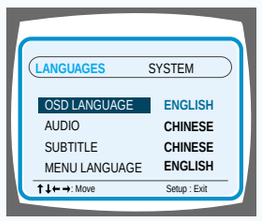


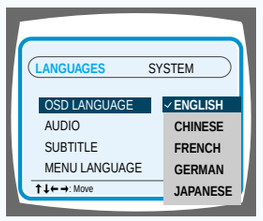
3

Press the **Enter** button or **Right** (▶) button.

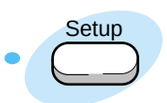
4

Press the **Up/Down** (▲/▼) button to select the desired language and then press the **Enter** button.





To End the Language Features Setup

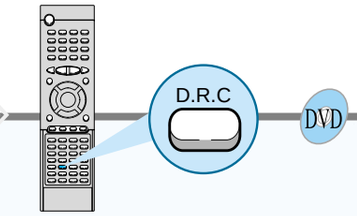


- Press the **Setup** button again.

Activating Dynamic Range Compression

GB

Activating Dynamic Range Compression



You can enjoy a powerful sound even at a low volume level by compressing the dynamic range (difference between the maximum and minimum sounds).

From the remote control ONLY:

Press the D.R.C button.

- Each time you press the button,the dynamic range compression mode alternates between on and off. Select "**D.R.C.ON** " while watching the DVD at night. (You can obtain a powerful sound at a low volume.)
- This function takes effect only when Dolby Digital or DTS Digital Surround is activated.

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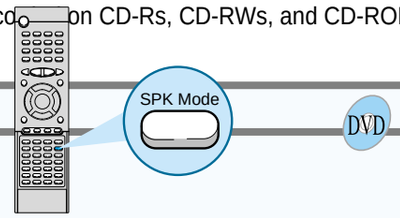
MP3 Playback

This system has a built-in MP3 decoder.
You can play back MP3 tracks (files)recorded on CD-Rs, CD-RWs, and CD-ROMs.

GB

Starting Playback

Setting up Speaker Mode and Delay Time



Press the **SPK Mode** button.

- Each time the button is pressed, a different mode selection is displayed on the front panel display as shown below.

Speaker Mode

DIGITAL F-SP SMALL
Front speaker: Small

DIGITAL C-SP SMALL
Center speaker: Small

DIGITAL R-SP SMALL
Rear speaker: Small

DIGITAL SW-SP USE
Subwoofer: Use

Delay Time

DIGITAL C-DEL 00MS — Setting up Delay Time from 00~05ms
Center Speaker Delay Time

DIGITAL R-DEL 00MS — Setting up Delay Time from 00~15ms
Rear Speaker Delay Time

• SMALL: When this setting is selected, low frequencies of below 200 Hz are assigned to the subwoofer only.
• USE: Select when using speakers.

MP3 is an abbreviation of Motion Picture Experts Group (or MPEG) Audio Layer 3. MP3 is simply a file format with a data compression ratio of 1:10 (128 Kbps*). That means,by using MP3 format, one CD-R or CD-RW can store 10 times as much data/volume as a regular CD. *Bit rate is the average number of bits that one second of audio data will consume. The measuring unit used is Kbps (1000 bits per second).
To obtain better audio quality, choose a higher bit rate. The most popular bit rate for encoding (recording)is 128 Kbps.

•This system can only read MP3 files that are recorded in the format that is compliant with ISO 9660 Level 1 or Level 2.
•The system can read or play MP3 files only with the extension code ".mp3 ".
•DIR tags cannot be shown on the display.
*An MP3 file can contain file information called "ID3 Tag" where its album name, performer, rack title, etc. are recorded.

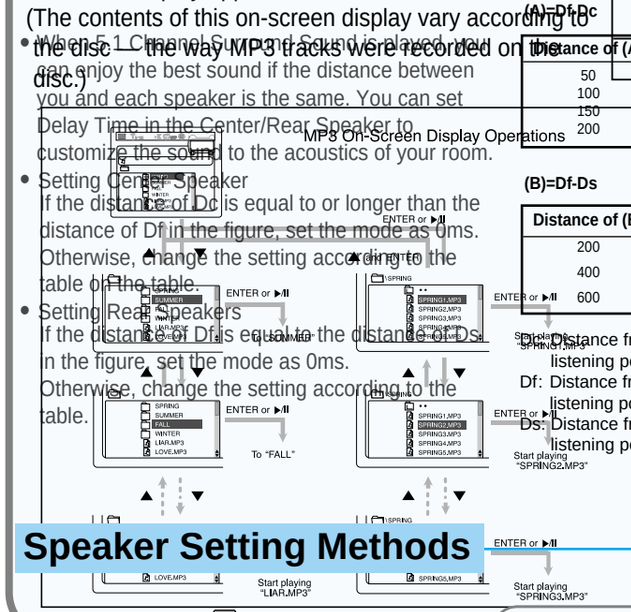
Note

- The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.)
- When in the speaker mode, the center and rear speakers and the subwoofer cannot be selected.

Operations Using the On-Screen Display

Turn on your TV when playing back an MP3 disc.

When the loaded MP3 disc is recognized, the following on-screen display appears on the TV screen.
(The contents of this on-screen display vary according to the disc — the way MP3 tracks were recorded on the disc.)



Button	To do
ENTER, ▶II	Start playback or go into a directory.

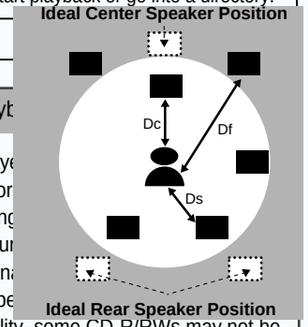
(A)=Df-Dc

Distance of (A)	Value
50	1.3ms
100	2.6ms
150	3.9ms
200	5.2ms

(B)=Df-Ds

Distance of (B)	Value
200	5.3ms
400	10.6ms
600	15.9ms

Df: Distance from front speakers to listening position
Dc: Distance from center speaker to listening position
Ds: Distance from rear speakers to listening position



Arrange all speakers within a circle as shown in the figure.

To set the delay time

Speaker Setting Methods

Front Speakers

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

Center Speaker

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

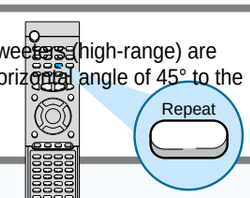
Rear Speakers

Set the rear speakers further back, parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.
If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

Subwoofer Speaker

Place the subwoofer at any convenient location within the vicinity of the listening position.

- Your DVD player can play back CD-R/RW discs recorded in CD-DA or video format. When recording CD-R/RW discs, make sure that the session is properly terminated. (Depending on the recording quality, some CD-R/RWs may not be playable.)
- CD-RW has a lower reflection rate than CD-R media and consequently it will take a longer to read CD-R discs.
- CD-RW discs recorded at high speed tend to be difficult for the DVD player to read. If the recording speed for the CD-RW disc is not predetermined, write it at low speed.



- Each time you press the button, repeat mode changes as follows:

REPEAT:RANDOM → REPEAT:ONE → REPEAT:DIR → REPEAT:DISC → REPEAT OFF

REPEAT:RANDOM
: All tracks recorded on the disc will be played once in random order.
REPEAT:ONE
: Current track will be repeated.
REPEAT:DIR
: Tracks in the current directory will be repeated.
REPEAT:DISC
: All tracks on the disc will be repeated.
REPEAT OFF
: Repeat play is canceled.(Normal play is resumed.)

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Speaker Setup

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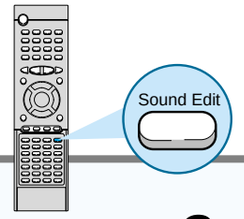
To set up Speaker Balance



DVD VCD CD

1

Press the **Sound Edit** button.

2

Use the **Left/Right** (◀ / ▶) button to raise or lower the output level of the chosen speaker(s).

- Each time the button is pressed the selection switches as shown below.

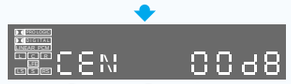
Example: 5.1CH Sound Setup

OFF, range of – 6 ~ 0

Front Speakers: L level, R level

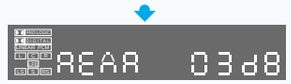
OFF, range of – 6 ~ 0

Rear Speakers: L level, R level



range of – 6 ~ – 00 ~ +6

Center Speaker



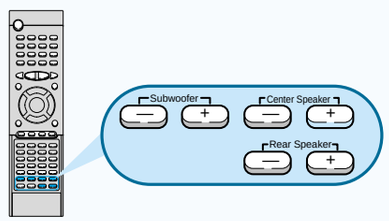
range of – 6 ~ – 00 ~ +6

Rear Speakers

range of – 6 ~ – 00 ~ +6

Subwoofer Speaker

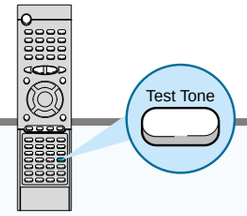
- You can adjust various settings by using their corresponding buttons on the remote control unit.



Note

The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.).

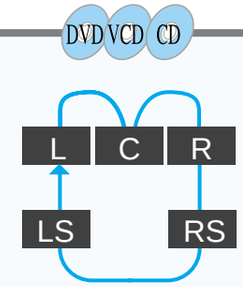
Speaker Setting Methods



DVD VCD CD

Press the Test Tone button.

- The test signal will be sent to the Left Front, Center, Right Front, Right Rear, Left Rear in that order.



To End the Speaker Setup

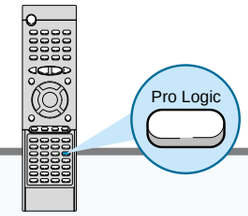
Test Tone

- Press the **Test Tone** button again.

Note

While in DSP or PRO LOGIC mode, TEST TONE may operate differently for VCDs or CDs.

Selecting Dolby Pro Logic



DVD VCD CD

Press the Pro Logic button.

Converts Dolby Surround encoded 2-channel sound (e.g., program material received by Stereo VCR could be Dolby Surround encoded 2-channel material that can be decoded into 4-channel sound using the Dolby Pro Logic mode). Pro Logic mode can also be enjoyed when in DVD mode or when playing Dolby Digital or PCM material that is Dolby Surround encoded.

1

Press the Function Selection button to select the desired function.

- Select from FM, AM, DVD and AUX IN.

2

Press the **Pro Logic** button.

- Each time the Pro Logic button is pressed

PRO LOGIC : Left, Center, Right, Subwoofer and Surround Channel

3-STEREO : Left, Center, Right and Subwoofer Channel

STEREO : Left, Right and Subwoofer Channel

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Creating Realistic Sound Fields

You can use the following surround to reproduce a realistic sound field.
• Digital Multichannel Surround —Dolby Digital and DTS Digital Surround
• Dolby Pro Logic

Dolby Digital and DTS Digital Surround

To enjoy surround effectively, all the speakers need to be connected and activated.

Dolby Digital
Used to reproduce multichannel sound tracks of the software encoded with Dolby Digital (DOLBY DIGITAL).

Dolby Digital encoding method (discrete 5.1 channel digital audio format)records and digitally compresses the left front channel,right front channel,center channel,left rear channel,right rear channel,and LFE channel signals (total 6 channels,but LFE channel is counted as 0.1 channel.Therefore, LFE is called the 5.1 channel).
In addition,Dolby Digital enables stereo rear sounds,and sets the cutoff frequency of the rear treble at 20 kHz,compared to 7 kHz for Dolby Pro Logic.These facts result in better sound quality than Dolby Pro Logic.

When the system detects Dolby Digital signals,the DOLBY DIGITAL indicator lights up on the display.

DTS Digital Surround
Used to reproduce multichannel sound tracks of the software encoded with DTS Digital Surround (DTS DIGITAL SURROUND).

DTS Digital Surround is another discrete 5.1 channel digital audio format available on CD,LD, and DVD software.
Compared to Dolby Digital,audio compression rate is relatively low.
This fact allows DTS Digital Surround format to add breadth and depth to the reproduced sounds.As a result,DTS Digital Surround features natural,solid and clear sound.

When the system detects DTS Digital Surround signals, the DTS indicator lights up on the display.

Dolby Surround

Used to reproduce sound tracks of the VCR tapes encoded with Dolby Surround (DOLBY SURROUND).
This is only used for the sound sources coming through the AUX IN jacks.

Dolby Pro Logic and Dolby 3 Stereo
Dolby Surround encoding format records the left front channel, right front channel,center channel,and rear channel signals (total 4 channels)into 2 channels.
The **Dolby Pro Logic** decoder built in this system decodes these 2 channel signals into original 4 channel signals — matrix-based multichannel reproduction,and allows you to enjoy a realistic stereo sound in your listening room.

When one of Dolby Surround modes is selected,the PRO LOGIC indicator lights up on the display.

*** Sources recorded in Dolby Surround**
These are sources in which three or more channels of surround have been recorded as two channels of signals using Dolby Surround encoding technology.
Dolby Surround is used for the sound tracks of movies recorded on DVDs, LDs and video cassettes to be played on stereo VCRs, as well as for the stereo broadcast signals of FM radio, TV, satellite broadcasts and cable TV.
Decoding these signals with Dolby Pro Logic makes it possible to achieve multi-channel surround playback.
The signals can also be played on ordinary stereo equipment, in which case they provide normal stereo sound.

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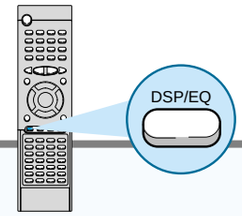
DSP/EQ Function



To Select a DSP/EQ

Press the DSP/EQ Mode button.

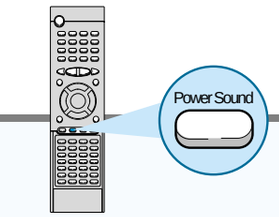
• Press **DSP/EQ** on the front panel or **DSP/EQ** on the remote control until the required option is selected. Each time the **DSP/EQ** button is pressed in sequence, the equalizer and sound modes **"PASS, POP, ROCK, CLASSIC, CINEMA, HALL, LIVE CLUB, DISCO"** are selected in order.

What is a DSP/EQ?

DSP/EQ synthetically recreates the sound field to achieve a more realistic, powerful sound.

Note
• DSP/EQ mode cannot be selected when a microphone is connected.
• When playing a DVD encoded in two or more channels, DSP/EQ mode cannot be selected.

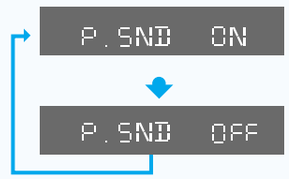
Power Sound Function



Power Sound Function

Press the Power Sound button.

• **P. SND ON, P. SND OFF** are displayed for a few seconds.



What is a Power Sound?

This system is equipped with the Power Sound feature, which makes the sound more powerful and full-bodied.

Note
• When playing a DVD encoded in two or more channels, Power Sound function cannot be selected.

Listening to the Radio

You can listen to the chosen band (FM, MW or LW broadcast stations) by using either the automatic tuning or manual tuning operation.

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Remote Control Unit

1

Press the **Tuner(Band)** button.

- The selection toggles back and forth between "FM" "MW" and "LW" each time the **Tuner(Band)** button is pressed.

2

Select a broadcast station.

Auto Station 1 — When the ⏮ ⏭ button is pressed, a preset broadcast station is selected.

Auto Station 2 — Hold in the ◀◀ ▶▶ button. Automatic searching begins, and then stops when a station is tuned in.

Manual Station — Press the ◀◀ ▶▶ button to tune to the chosen station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

Main Unit

1

Press the **Function** button to select the desired band (FM, MW or LW).

2

Select a broadcast station.

Auto Station 1 — Press the **Stop** (■) button to select the PRESET mode. Then press the ⏮ ⏭ button to select a station stored in the preset. See the instructions on the next page to preset stations.

Auto Station 2 — Press the **Stop** (■) button to select the MANUAL mode on the front panel. Then hold in the ⏮ ⏭ button to make the unit begin automatically searching for broadcast stations.

Manual Station — Press the **Stop** (■) button to select the MANUAL mode on the front panel. Press the ⏮ ⏭ button to tune to the desired station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

To Listen in Mono/Stereo

Audio
MO/ST

Press the MO/ST button. (FM only)

- The selection toggles back and forth between “STEREO” and “MONO” each time the **MO/ST** button is pressed.
- In a poor reception areas, select Mono mode for a clear, interference-free broadcast.

Presetting stations

You can store up to:

- 15 FM stations
- 8 MW stations
- 7 LW stations

- **FM** ..... Frequency Modulation
- **AM(MW)** ..... Medium Wave
- **LW** ..... Long Wave

GB

Example: Presetting FM 89.1 in the memory

1

Press the **Tuner(Band)** button and select the FM band.

2

Select MANUAL by pressing the **Stop** (■) button on the main unit.

3

Use the ◀◀ and ▶▶ button to tune to 89.1

- The selection toggles back and forth between “ → FM → AM(MW) → LW → ” each time the **Tuner(Band)** button is pressed.

4

Press the **Program** button on the remote control, FM1 will flash. If you want to save 89.1 to FM1, press Program again.

5

If you want to save 89.1 to another preset location(FM2~FM15), press ⏮ or ⏭, then press **Program** to save it to that location.

6

To preset other stations, follow steps 1~4 again.

To store other Channels

- Follow steps 3~5 again.

To tune in a preset station

- See the previous page.

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About RDS broadcasting

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Using the RDS (Radio Data System) to receive FM stations

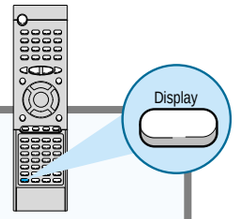
RDS allows FM stations to send an additional signal along with their regular program signals.
For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music,etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

- Description on RDS function
  1. **PTY (Program Type) :** Displays the type of programme currently being broadcast
  2. **PS NAME (Program Service Name) :** Indicates the name of broadcasting station and is composed of 8 characters.
  3. **RT (Radio Text) :** Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
  4. **CT (Clock Time) :** Decodes the real time clock from the FM frequency.
     - Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.
  5. **TA (Traffic Announcement) :** When this symbol flashes it shows that the traffic announcement is in progress.

Note

- RDS is not available for MW/LW broadcasts.
- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.



What information can RDS signals provide?

You can see the RDS signals the station sends on the display.

TO show the RDS signals

Press RDS DISPLAY while listening to an FM ststion.
Each time you press the button, the display change to show you the following information:

→ PS NAME → PTY → RT → CT → Frequency →

PS (Program Service) : While searching,"**PS**"appears and then the station names will be displayed."**NO PS**" appears if no signal is sent.
PTY (Program Type) : while searching,"**PTY**" appears and then the type of the broadcast program will be displayed. "**NO PTY**"appears if no signal is sent.
RT(RadioText) : while searching,"**RT**"appears and then text messages the station sends will be displayed. "**NO RT**"appears if no signal is sent.
Frequency : station frequency (non-RDS service)

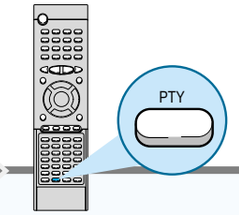
About characters shown in the display

When the display shows PS,PTY,or RT signals,the following haracters are used.

- The display window cannot differentiate upper case and lower case lrtters and always uses upper case letters.
- The display window cannot show accented letters, "**A**," for instance, may stans for accented "**A's**" like "**À, Â, Ã, Á, Åand Ã**."

Note If searching finishes at once,"**PS**","**PTY**",and "**RT**" will not appear on the display.

PTY (Program Type) indication and PTY-SEARCH function



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One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels by specifying the PTY codes.

To search for a program using the PTY codes

Before you start, remomber...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press RDS PTY while searching.
- There is a time limit in doing the following steps. If the setting is cancelled before you finish, start from step 1 again.
- When pressing the buttons on the primary remote control, make sure that you have selected the FM station using the primary remote control.

1 Press RDS PTY while listenning to an FM station.

2 Press and hold RDS PTY until the PTY code you want appears on the display window, while "PTY SELECT"is flashing.
- The display gives you the PTY codes described to the right.

3 Press RDS PTY again, while the PTY code selected in the previous step is still on the display.
- The center unit searches 15 preset FM stations,stops when it finds the one you have selected, and tunes in that station.

Display	Program Type
NEWS	• *News including an announced opinion and report*
AFFAIRS	• *Several matters including a current incident, documentary, discussion and analysis.*
INFO	• *Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc.*
SPORT	• *Sports*
EDUCATE	• *Education*
DRAMA	• *Drama-Radio serial, etc.*
CULTURE	• *Culture-National or local culture including the religious problem, social science, language, theater,etc.*
SCIENCE	• *Natural science and technology*
VARIED	• *Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc.*
POP M	• *Pop music*
ROCK M	• *Rock music*
LIGHT M	• *Light classical music- Classical music and instrumental and chorus music*
CLASSIC	• *Heavy classical music-Orchestra music, symphony, chamber music and opera*
OTHER M	• *Other music - Jazz, R&B country music*
WEATHER	• *Weather*
FINANCE	• *Finance*
CHILDREN	• *Children's programmes*
SOCIAL A	• *Social affairs*
RELIGION	• *Religion*
PHONE IN	• *Phone in*
TRAVEL	• *Travel*
LEISURE	• *Leisure*
JAZZ	• *Jazz Music*
COUNTRY	• *Country Music*
NATIONAL M	• *National Music*
OLDIES	• *Oldies Music*
FOLK M	• *Folk Music*
DOCUMENT	• *Documentary*

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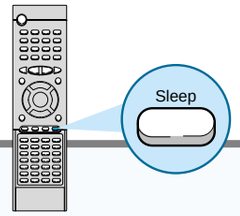
Sleep Function



To set up Sleep

Press the Sleep button.

- Each time the button is pressed the selection toggles as follows: SLEEP 10 ➔ SLEEP 20 ➔ SLEEP 30 ➔ SLEEP 60 ➔ SLEEP 90 ➔ SLEEP 120 ➔ SLEEP 150 ➔ OFF.

What is the Sleep function?

You can set the sleep time so that the unit powers off automatically after a preset period of time.

To Review Sleep Setting

- The remaining time for the selected Sleep time is displayed.
- Pressing the button once again changes the Sleep time from the last setting.

Troubleshooting

Problem	Check
The disc tray does not open.	• Is the disc installed with the label side facing up? • Is the power cord plugged securely into the power outlet? • Turn off the power to the unit by pressing the **Power** (⏻/I) button and turn it back on.
Disc does not play.	• Check the region number of the DVD. • DVD discs purchased abroad may not be playable. • This player cannot play CD-ROMs, DVD-ROMs, etc. • Check the rating level of the DVD.
Playback does not start immediately when the Play/Pause button is pressed.	• Check whether the disc has any scratch marks or is deformed.
No sound is produced.	• No sound is heard during high-speed playback, slow playback, and step motion playback modes. • Are the speakers properly connected? Is the speaker Setup correctly customized? • Is the disc severely damaged? The disc may be dirty. Wipe off fingerprints or dirt.
Sound can be heard only from a few speakers and not all six.	• When listening to a CD or radio, sound is output to the front speakers only (L/R). Select the “PRO LOGIC” option by pressing the Pro Logic button on the remote control unit to use all six speakers. • Check whether your DVD disc is 5.1 CH compatible.
Picture does not appear; sound is not produced; the disc tray opens 2-5 seconds later.	• Was the player moved suddenly from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player after the condensation disappears.)
Sound quality is irregular.	• Are the speaker cables loose? • Is there any dirt or debris at the end of the speaker connector?
Dolby Digital 5.1 Channel Surround Sound is not being reproduced.	• Does the disc being played show the “Dolby Digital 5.1CH” mark ? 5.1-channel sound is reproduced only if the disc is recorded with 5.1 channel sound. • Is the DVD player connected to the proper speakers?

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Problem	Check
• The disc revolves but no picture appears. • Picture shows interference and quality is poor.	• Is the TV power turned on? • Are the video cables properly connected? • Is it the player in PAUSE mode? • Is there any dirt on the disc, or is the disc damaged? • It may not be possible to play some DVD discs due to poor manufacture. • When a dark scene changes to a bright scene during playback, the screen may flicker vertically. Some disturbance is normal.
Remote control unit does not operate.	• Is the remote control being used within the appropriate distance and angle of operation for the unit? • Are there any obstacles between the remote control unit and the remote control sensor? • Are the batteries dead? Is it time to replace the batteries with new ones?
Audio or subtitle language does not operate.	• The audio or subtitle language features does not operate with DVDs that do not include multiple audio or subtitle languages.
The Menu button is pressed but the Menu screen does not appear.	• Is the remote control being used within the appropriate distance and angle of operation for the unit? • Are the batteries dead? • Does the disc have a Menu?
The screen ratio cannot be changed.	• You can play 16:9 wide DVDs in 16:9 WIDE mode or 4:3 LETTER BOX mode or 4:3 PAN-SCAN mode; but 4:3 encoded DVDs only show in 4:3 ratio. Refer to the DVD disc jacket and then select the appropriate function.
The desired radio station cannot be tuned in.	• Is the antenna installed properly? • When the antenna's input signal is weak, install an external FM antenna in an area with good reception quality.
The system is malfunctioning (the system does not work or no sound).	• While the player is in the stop mode, hold the Stop (■) button down on the main unit for over 5 seconds."INITIAL" appears on the display and all settings will return to the Factory Preset condition. **The RESET function erases all settings; do not use this function unless necessary.**

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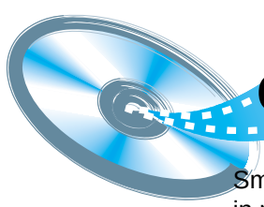


Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

Handling and Storing Discs

When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

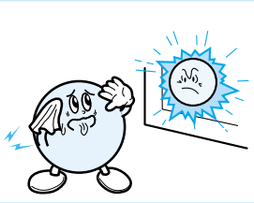
- When cleaning, wipe gently from the inside to the outside of the disc.

Note

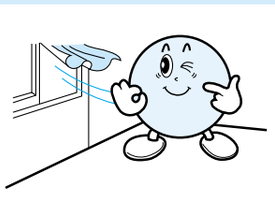
Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

Disc Storage

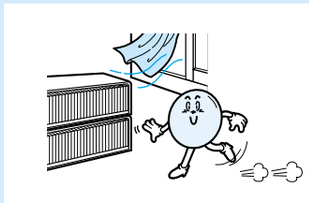
Do not keep in direct sunlight



Keep in a cool ventilated area



Keep in a clean Protection jacket. Store vertically.



Warning

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked discs or discs that are scratched.

Disc Type and Protection

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Usable Discs

Disc Types	Marks	Recording Types	Disc Size	Max. Playing Time
DVD	DVD VIDEO	Audio + Video	12cm	Approx. 240 min. (Single-sided)
				Approx. 480 min. (Double-sided)
			8cm	Approx. 160 min. (Single-sided)
				Approx. 160 min. (Double-sided)
VIDEO-CD	COMPACT disc DIGITAL VIDEO	Audio + Video	12cm	74 min.
			8cm	20 min.
AUDIO-CD	COMPACT disc DIGITAL AUDIO	Audio	12cm	74 min.
			8cm	20 min.

DOLBY DIGITAL — Dolby Digital disc

DIGITAL dts SURROUND — DTS Disc

DIGITAL SOUND — Digital Audio disc

STEREO — Stereo disc

NTSC — NTSC broadcast system in USA, Canada, Japan, South Korea, etc..

MP3 DIGITAL DISC PLAYBACK — MP3 disc

Specifications

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GENERAL	Power Consumption	80W	
	Weight	5.8Kg	
	Dimensions	350(W) x 80(H) x 350(D)mm	
	Operating Temperature Range	+5°C~+35°C	
	Operating Humidity Range	10%~75%	
FM TUNER	Usable Sensitivity	10dB	
	S/N Ratio	60dB	
	Distortion	0.5%	
AM TUNER	Usable Sensitivity	54dB	
	S/N Ratio	40dB	
	Distortion	2%	
VIDEO OUTPUT	Composite Video	1.0Vp-p(75Ω load)	
	Scart Jack	Compositive Video : 1.0Vp-p(75Ω load)	
		Luminance signal : 1.0Vp-p(75Ω load)	
		Color Signal : 0.286Vp-p(75Ω load)	
	S-VIDEO	Luminance Signal: 1.0Vp-p(75Ω load)	
		Color Signal: 0.286Vp-p(75Ω load)	
AMPLIFIER	Front speaker output	20W x 2(6Ω)	
	Center speaker output	20W(6Ω)	
	Rear speaker output	20W x 2(6Ω)	
	Subwoofer speaker output	40W(3Ω)	
	Frequency range	20Hz~25KHz	
	S/N Ratio	75dB	
	Channel separation	50dB	
	Input sensitivity	(AUX)500mV	
SPEAKER	Speaker system	5.1ch speaker system	
		Front/Center/Rear speaker	Subwoofer speaker
	Impedance	6Ω x 5	3Ω
	Frequency range	150Hz~18KHz	45Hz~200Hz
	Output sound pressure level	87dB/W/M	86dB/W/M
	Rated input	20W	40W
	Maximum input	40W	80W
	Dimensions	98(W) x 110(H) x 110(D) mm	200(W) x 332(H) x 300(D) mm
	Weights	0.6Kg	3.9Kg

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Reference

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Note on Terminology

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left , from the right , etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
PBC (PLAYBACK CONTROL)	This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
VIDEO CD	Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0).
DIGITAL dts SURROUND	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as laser discs, DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
DOLBY DIGITAL	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with DOLBY DIGITAL disc marking). With better sound quality, dynamic range, and directionality than the traditional Dolby surround technology, you can enjoy the dynamic realistic sound.
PRO LOGIC	A 4 channel analog sound reproduced from a program source such as a videotape or LD with the DOLBY PRO LOGIC mark. You can enjoy a more realistic, robust sound unavailable from regular stereo sources.

Memo

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